Available online at www.sciencedirect.com
ScienceDirect
Aquaculture 276 (2008) 209–210
Aquaculture
www.elsevier.com/locate/aqua-online

Contents of *Aquaculture*, Volume 276

VOL. 276 NOS. 1–4 **30 April 2008**

Diseases

How difficult is it to achieve compliance with the quality control requirements of the Clinical and Laboratory Standards Institute's guideline M42-A? P. Smith (Ireland) 1

Epidemiological study of *Bonamia* sp. in the native flat oyster, *Ostrea puelchana* from San Matías Gulf (NW Patagonia, Argentina) M.A. Kroeck, L. Semenas and E.M. Morsan (Río Negro, Argentina) 5

Monitoring the opportunistic bacteria *Pseudoalteromonas* sp. LT-13 in a great scallop, *Pecten maximus* hatchery R.-A. Sandaa, L. Brunvold, T. Magnesen and Ø. Bergh (Bergen, Norway) 14

Immunomodulation by carrageenans in the white shrimp *Litopenaeus vannamei* and its resistance against *Vibrio alginolyticus* S.-T. Yeh and J.-C. Chen (Keelung, Taiwan, ROC) 22

Tissue distribution and elimination of florfenicol in tilapia (*Oreochromis niloticus* × *O. caureus*) after a single oral administration in freshwater and seawater at 28 °C J.-B. Feng, X.-P. Jia and L.-D. Li (Guangzhou, China) 29

Genetics

Stock enhancement program for black sea bream (*Acanthopagrus schlegelii*) in Hiroshima Bay: Monitoring the genetic effects E.B. Gonzalez, K. Nagasawa and T. Umino (Higashi-Hiroshima, Japan) 36

The complete mitochondrial genome of red grouper *Plectropomus leopardus* and its applications in identification of grouper species Z.Y. Zhu and G.H. Yue (Singapore, Singapore) 44

The effects of triploidy on *Penaeus* (*Marsupenaeus*) *japonicus* (Bate) survival, growth and gender when compared to diploid siblings F.E. Coman, M.J. Sellars (Cleveland, Qld, Australia), B.J. Norris (St. Lucia, Qld, Australia), G.J. Coman and N.P. Preston (Cleveland, Qld, Australia) ... 50

Molecular characterization and seasonal expression of the vitellogenin gene from Günther's walking catfish *Clarias macrocephalus* D. Panprommin (Nakorn Pathon, Thailand), S. Poompuang and P. Srisapoome (Bangkok, Thailand) 60

Husbandry and Management

Management of nauplius production in the paracalanid, *Bestiolina similis* (Crustacea: Copepoda): Effects of stocking densities and culture dilution K. VanderLugt and P.H. Lenz (Honolulu, HI, United States) 69

Use of specific bacterial-microalgal biofilms for improving the larval settlement of *Argopecten purpuratus* (Lamarck, 1819) on three types of artificial spat-collecting materials Y.E. Leyton and C.E. Riquelme (Antofagasta, Chile) 78

Temporal and spatial variation in food availability and meat ratio in a longline mussel farm (*Mytilus edulis*) T. Strohmeier, A. Duinker, Ø. Strand and J. Aure (Bergen, Norway) 83

Influence of suspended mussel farming on planktonic communities in Grande-Entrée Lagoon, Magdalen Islands (Québec, Canada) A. Trottet, S. Roy (Rimouski (Québec), Canada), E. Tamigneaux (Grande-Rivière (Québec), Canada), C. Lovejoy (Sainte-Foy (Québec), Canada) and R. Tremblay (Rimouski (Québec), Canada) 91

Behaviour and growth of Atlantic salmon (*Salmo salar* L.) subjected to short-term submergence in commercial scale sea-cages T. Dempster (Trondheim, Norway), J.-E. Juell, J.E. Fosseidengen (Matredal, Norway), A. Fredheim and P. Lader (Trondheim, Norway) 103

Stress in pintado (*Pseudoplatystoma corruscans*) during farming procedures M. Fagundes and E.C. Urbinati (Jaboticabal, Brazil) 112

Nutrition

Effects of dietary lipids on the fatty acid composition and lipid metabolism of the green sea urchin *Strongylocentrotus droebachiensis* E. González-Durán (Halifax Nova Scotia, Canada), J.D. Castell, S.M.C. Robinson and T.J. Blair (St. Andrews NB, Canada) 120

Biochemical characterization and nutritional value of three *Pavlova* spp. in unialgal and mixed diets with *Chaetoceros muelleri* for postlarval sea scallops, *Placopecten magellanicus* L.M. Milke, V.M. Bricelj (Halifax, NS, Canada) and C.C. Parrish (St. John's, NL, Canada) 130

The influence of dietary concentrations of arachidonic acid and eicosapentaenoic acid at various stages of larval ontogeny on eye migration, pigmentation and prostaglandin content of common sole larvae (*Solea solea* L.) I. Lund, S.J. Steenfeldt (Hirtshals, Denmark), G. Banta and B.W. Hansen (Roskilde, Denmark) 143

Effects of replacement of dietary fish oil by soybean oil on growth performance and liver biochemical composition in juvenile black seabream, *Acanthopagrus schlegeli*
S. Peng, L. Chen (Shanghai, China), J.G. Qin (Adelaide, SA, Australia), J. Hou, N. Yu, Z. Long (Shanghai, China), J. Ye (Zhejiang, China) and X. Sun (Shanghai, China) 154
The impact of diet on the growth and proximate composition of juvenile whelks, *Dicathais orbita* (Gastropoda: Mollusca)
S.H. Woodcock and K. Benkendorff (Adelaide, SA, Australia) 162

Physiology and Endocrinology
Growth, food intake regulation and metabolic adaptations in goldfish (*Carassius auratus*) exposed to different salinities
R.K. Luz, R.M. Martínez-Álvarez, N. De Pedro and M.J. Delgado (Madrid, Spain) 171
Effects of thermal and osmotic stress on growth, osmoregulation and Hsp70 in sea cucumber (*Apostichopus japonicus* Selenka)
Y. Dong, S. Dong and X. Meng (Qingdao, People's Republic of China) 179
Egg and sperm production and quality of sharpsnout sea bream (*Diplodus puntazzo*) in captivity
M. Papadaki, M. Papadopoulou, I. Siggelaki and C.C. Mylonas (Crete, Greece) 187
Effects of broodstock density and diet on reproduction and juvenile culture of the Leech, *Hirudinaria manillensis* Lesson, 1842
B. Zhang (Guangzhou, PR China), Q. Lin (Guangzhou, PR China; Vero Beach, Florida, USA), J. Lin (Vero Beach, Florida, USA), X. Chu and J. Lu (Guangzhou, PR China) 198

Short Communication
Effect of high temperature during embryogenesis on the sex differentiation process in the Nile tilapia, *Oreochromis niloticus*
C. Rougeot, C. Prignon (Tihange, Belgium), C.V. Ngouana Kengne (Yaoundé, Cameroon) and C. Mélard (Tihange, Belgium) 205

Contents of *Aquaculture*, Volume 276 209